

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
30 May 2002 (30.05.2002)

PCT

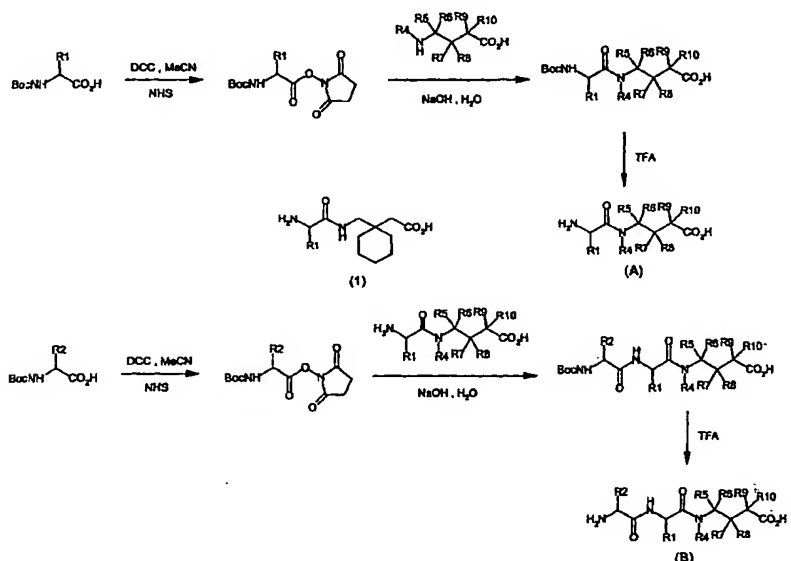
(10) International Publication Number
WO 02/042414 A3

- (51) International Patent Classification⁷: A61K 38/05, 38/06, 38/07, C07K 5/06, 5/08, 5/10
- (21) International Application Number: PCT/US01/43120
- (22) International Filing Date:
19 November 2001 (19.11.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/249,804 17 November 2000 (17.11.2000) US
60/297,732 11 June 2001 (11.06.2001) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/249,804 (CON)
Filed on 17 November 2000 (17.11.2000)
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: AMINO ACID CONJUGATES PROVIDING FOR SUSTAINED SYSTEMIC CONCENTRATIONS OF GABA ANALOGUES

Synthesis of Aminoacyl and Other Peptide Derivatives of GABA Analogs



WO 02/042414 A3

(57) Abstract: This invention is directed to compounds (see Figure 1) that provide for sustained systemic concentrations of GABA analogs following administration to animals. This invention is also directed to pharmaceutical compositions including and methods using such compounds.



European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
10 April 2003

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/49180

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/05, 38/06, 38/07; C07K 5/06, 5/08, 5/10

US CL : 514/18, 19; 530/330, 331; 562/443, 561

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/18, 19; 530/330, 331; 562/443, 561

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST, CHEMICAL ABSTRACTS

search terms: structures of claims 1 and 5, gaba, dipeptide, tripeptide, tetrapeptide, homocarnosine

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,508,728 A (NAGAI ET AL) 02 April 1985, see entire document, especially the Abstract.	1
X	US 4,908,353 A (YAMAMOTO ET AL) 13 March 1990, see entire document, especially claims 2, 3, and 5-7.	1
A	US 5,094,848 A (BRIXNER) 10 March 1992, see entire document, especially column 22, compound 4.	1-8
X	US 5,110,797 A (IENAGA ET AL) 05 May 1992, see entire document, especially the Abstract.	1-4

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"B" earlier document published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"A" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

04 JUNE 2002

Date of mailing of the international search report

02 JUL 2002

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/48120

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,051,683 A (DEIGIN ET AL) 18 April 2000, see entire document, especially the Abstract.	1-8
X	SU 285929 A (BURIMOVA ET AL) 13 January 1971, see entire document, especially column 3, line 10.	1-4